

10/522590

PTO5 Rec'd PCT/PTO 26 JAN 2005

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re application of)
Volker LOHWEG)
Application No. : TBD)
Filed : January 26, 2005)
For : METHODS FOR)
EVALUATING)
THE SIGNALS)
OF AN ELECTRONIC)
IMAGE SENSOR)
DURING PATTERN)
RECOGNITION)
OF IMAGE)
CONTENTS IN A)
TEST PIECE)

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR 1.97 and 1.98, and with MPEP Section 609, the materials listed on the accompanying form PTO/SB/08a and b are brought to the attention of the Examiner. Copies of the various articles are enclosed. Copies of the two U.S. patent documents are not enclosed.

A copy of each of the four articles set forth in the International Search Report, which is a part of the published PCT application WO 2004/017252 A1 is enclosed. All of these four articles are in the English language. No discussion thereof is required.

Copies of the three articles referenced in the Substitute Specification are also

10/522590

PTO5 Rec'd PCT/PTO 26 JAN 2005

enclosed. The Charalampidis et al. article is in the English language and no discussion thereof is required. The Tilli article and the Arnemann article are in the German language. The Examiner is requested to review the discussions of these articles as set forth in the substitute specification.

The article by Lohwig and Müller is discussed in the Substitute Specification, of the subject application, as amended.

U.S. Patent Application Publication No. 2002/0039446 A1 is cited in the Substitute Specification, as amended. It is in the English language. U.S. Patent No. 5,602,932 was brought to the attention of the undersigned by applicant's principal representatives in Germany, without comment. It is in the English language.

Entry of these materials into the file of the subject U.S. application, and their consideration by the Examiner is respectfully requested.

Respectfully submitted,

Volker LOHWEG
Applicant

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January 26, 2005
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Attorney Docket: W1.1913 PCT-US

10/522590

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PTO/SB/08a (08-03)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

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Complete if Known

Application Number	
Filing Date	
First Named Inventor	Volker LOHWEG
Art Unit	
Examiner Name	
Attorney Docket Number	W1,1913 PCT-US

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO				Complete if Known	
				Application Number	
				Filing Date	
				First Named Inventor	Volker LOHWEG
				Art Unit	
				Examiner Name	
Sheet	1	of	1	Attorney Docket Number	W1.1913 PCT-US

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
	1	"Handwritten Character Recognition using Fuzzy Logic," S. Sasi and J. S. Bedi; Dept. of Elect. & Comp. Eng., Wayne State U., Detroit, MI 03/08/94			
	2	"Position, Rotation, and Scale Invariant Recognition of Images Using Higher-Order Spectra," V. Chandran and S. L. Elgar; IEEE, 23-03-92			
	3	"Fuzzy Pyramid-Based Invariant Object Recognition," X. Liu, S. Tan, V. Srinivasan, S.H. Ong, W. Xie; May 27, 1994, No. 5, Head.Hill Hall, Oxford, GB; Pattern Recognition, Vol. 27, No. 5, pp. 741-756			
	4	"Fuzzy Quaternion Approach to Object Recognition Incorporating Zernike Moment Invariants," K.N. Ngan, S.B. Kang; IEEE, 10th Int'l Conf. on Pattern Recognition, June 1990			
	5	"Mustererkennung mit Fuzzy-Logik - Analysieren, klassifizieren, erkennen und diagnostizieren," Thomas Tilli; 1993 Franzis-Verlag GmbH, Munchen			
	6	"Mustererkennung mit Fuzzy-Logik," Peter Arnemann; Elektronik 22/1991			
	7	"A Fuzzy ARTMAP Based Classification Technique of Natural Textures," D. Charalampidis, M. Georgopoulos, T. Kasparis, J. Rolland; 1999 IEEE			
	8	"Ein generalisiertes Verfahren zur Berechnung von translationsinvarianten Zirkulartransformationen fur die Anwendung in der Signal- und Bildverarbeitung," V. Lohweg, D. Muller; Mustererkennung 2000			

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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